

NAME: \_\_\_\_\_

DATE \_\_\_\_\_

### Problem Solving Venn Diagrams

#### Question 3:

The Beauty Parlour at the mall has 25 beauty technicians. 19 can do Hair, 10 can do Mani-/Pedicures, some can do both. Calculate how many technicians can do both Hair and Mani-Pedicures.

**Solution:** Fill in the spaces with the information given.

No. of beauty technicians,  $U =$  \_\_\_\_\_

No. of technicians for Hair,  $n(H) =$  \_\_\_\_\_

No. of technicians for Mani-/Pedicures,  $n(MP) =$  \_\_\_\_\_

No. of technicians for both,  $n(H \cap MP) = n$

$U =$  \_\_\_\_\_

$$\_\_ - x + x + \_\_ - x = 25$$

$$\_\_ + \_\_ + \_\_ - x = 25$$

$$\_\_ - x = 25$$

$$n = \_\_ - \_\_ = \_\_ \text{ employees}$$

a)  $n(H \cap MP) =$  \_\_\_\_\_ employees

